AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (currently amended) A non allergenic, rising food flour, derived from the seed of a plant expressing in said seed a gene coding for the transglutaminase enzyme and one or more gene coding for wheat storage proteins, wherein said wheat storage proteins comprises a preserved C-terminal motif LKVAKAQQLAAQLPAMCR (SEQ ID NO:11) and are selected from the group consisting of 1Bx7, 1By9, 1Dx5, 1Dy10, 1Ax2, 1Bx17, 1Ax1, 1Dy12, 1Dy10 and HMW2 and are optionally modified by with techniques of site directed mutagenesis in order to eliminate allergenic aminoacid amino acid sequences for food allergies to gluten, and wherein said plant is a cereal or a leguminosa provided that said plant is not wheat.
- 2. (currently amended) The food flour of claim Claim 1 wherein the sequences to be modified are selected from the group consisting of PFPQPQLPY, PQPQLPYPQ, PYPQPQLPY, LQLQPFPQPQLPY, QQGYYPTSPQQSG, QQGYYPTS, PFSQQQQQ, QSEQSQQPFQPQ and QXPQQPQQF SEQ ID NOS:36-44.
- 3. (currently amended) The food flour of claim Claim 2 wherein the site directed mutagenesis is directed to aminoacid amino acid in position 6 for PFPQPQLPY, aminoacid amino acid in position 4 for PQPQLPYPQ, aminoacid amino acid in position 6 for PYPQPQLPY, aminoacid amino acid in position 10 for LQLQPFPQPQLPY, aminoacids amino acid in positions 5 and 8 for QQGYYPTSPQQSG, aminoacids amino acids in position positions 5 and 8 for QQGYYPTS, aminoacids amino acids in positions 4,5 and 7 for PFSQQQQQ, aminoacids amino acids in positions 4 and 6 for QSEQSQQPFQPQ, or aminoacid amino acid in position 4 for QXPQQPQQF (SEQ ID NOS: 36-44.
- 4. (currently amended) The food flour of anyone of claims Claim 1 to 3-wherein the cereal plant is rice, soybean or corn.

- 5. (currently amended) A transgenic plant expressing in seed a gene coding for the transglutaminase enzyme and one or more gene coding for wheat storage proteins, wherein said wheat storage proteins comprises a preserved C-terminal motif LKVAKAQQLAAQLPAMCR (SEQ ID NO:11) and are selected from the group consisting of 1Bx7, 1By9, 1Dx5, 1dy10 1Dy10, 1Ax2, 1Bx17, 1Ax1, 1Dy12, 1Dy10 and HMW2 and are optionally modified with by techniques of site directed mutagenesis in order to eliminate allergenic aminoacid amino acid sequences for food allergies to gluten, and wherein said plant is a cereal or a leguminosa provided that said plant is not wheat.
- 6. (currently amended) The plant of Claim 5 wherein the sequences to be modified are selected from the group consisting of PFPQPQLPY, PQPQLPYPQ, PYPQPQLPY, LQLQPFPQPQLPY, QQGYYPTSPQQSG, QQGYYPTS, PFSQQQQQ, QSEQSQQPFQPQ and QXPQQPQQF (SEQ ID NOS:36-44).
- 7. (currently amended) The plant of Claim 6 wherein the site directed mutagenesis is directed to amino acid amino acid in position 6 for PFPQPQLPY, aminoacid amino acid in position 4 for PQPQLPYPQ, aminoacid amino acid in position 6 for PYPQPQLPY, aminoacid amino acid in position 10 for LQLQPFPQPQLPY, aminoacids amino acids in position positions 5 and 8 for QQGYYPTSPQQSG, aminoacids amino acids in positions 5 and 8 for QQGYYPTS, aminoacids amino acids in positions 4,5 and 7 for PFSQQQQQ, or aminoacids amino acids in positions 4 and 6 for QSEQSQQPFQPQ, aminoacid amino acid in position 4 for QXPQQPQQF (SEQ ID NOS:36-44).
- 8. (currently amended) The plant of anyone of claims Claim 5 to 7, wherein said plant is rice, soybean or corn.
- 9. (currently amended) A seed produced by the plant of anyone of claims Claim 5 to 8 wherein said seed expresses the transglutaminase enzyme and one or more gene coding for wheat storage proteins, wherein said wheat storage proteins comprises a preserved C-terminal motif of LKVAKAQQLAAQLPAMCR (SEQ ID NO:11) and are

selected from the group consisting of 1Bx7, 1By9, 1Dx5, 1dy10 1Dy10, 1Ax2, 1Bx17, 1Ax1, 1Dy12, 1Dy10 and HMW2 and are optionally modified with techniques of site directed by mutagenesis in order to eliminate allergenic aminoacid amino acid sequences for food allergies to gluten, and wherein said plant is a cereal or a leguminosa provided that said plant is not wheat.

- 10. (currently amended) A process for the production of flours flour form from the seeds of Claim 9, comprising the step of milling said seeds.
- 11. (currently amended) A process for producing a baked product comprising the steps of admixing the flour as defined in anyone of claims Claim 1 to 4 with a suitable amount of yeast, allowing said flour to raise and baking the obtained dough.
- 12. (currently amended) A baked product obtainable obtained by the process of claim claim 11.